

Claims

1. Method for processing of a three-dimensional image data set, wherein
  - (a) the three-dimensional image data set is converted to at least two different data representations for image reproduction;
  - (b) the at least two different data representations are reproduced;
  - (c) one image section that is shown in one of the data representations is markable;
  - (d) for the at least one other data representation the relative position of the marked image section is calculated;
  - (e) the relative position of the marked image section is shown in the at least one other data representation.
2. Method according to claim 1, wherein at least one data representation is a sectional view and at least one data representation is a three-dimensional view.
3. Method according to claim 2, wherein
  - the at least one sectional view comprises an axial view and/or a frontal view and/or a sagittal view and/or an oblique view; and
  - the at least one three-dimensional view comprises a wall view and/or an intraluminal view.
4. Method according to one of the preceding claims, wherein at least one of the data representations is a topogram view.

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5. Method according to one of the preceding claims, wherein the at least one other data representation is changed so that the image section marked in the one data representation is also shown in the at least one other data representation.
6. Method according to one of the preceding claims, wherein the shown image section is marked manually and/or by means of a structure and/or texture recognizing method.
7. Method according to one of the preceding claims, wherein  
  
the three-dimensional image data set of a hose-shaped body is processed; and  
  
at least one of the data representations is a wall view with a line of sight that is parallel and/or anti-parallel to the curvature vector at the maximum curvature of the mid-line of the hose-shaped body.
8. Method according to one of the preceding claims for use in virtual endoscopy, in particular, virtual coloscopy.
9. A computer program product to be read by or to be implemented in a computer respectively and that is adapted to perform the steps (a) and (d) of the method according to claim 1.
10. An image processing and reproducing system for performing a method according to one of the claims 1 to 8, comprising  
  
at least one device for image reproduction of a three-dimensional image data set by at least two different data representations;  
  
a device for marking one image section that is shown in one of the data representations;  
  
a device for calculation of the relative position of the image section marked in the one data representation for the at least one other data representation.

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11. An image processing and reproducing system according to claim 10 including a computer program product according to claim 9.

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